Recombinant CTBP1 protein (His tag)

Catalog Number	540255
Synonyms	CtBP1
Species	Human
Expression System	E. coli
Accession	Q13363
Molecular Weight	Predictes a molecular mass of 40.78 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	1-357
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-357 aa (Q13363) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant human C-terminal-binding protein 1 (CtBP1) fragment (amino acids 1-357) is a high-quality protein designed for structural and biochemical studies. This stable, soluble fragment retains key functional properties, making it ideal for investigating CtBP1's roles as a transcriptional corepressor and dehydrogenase in cellular regulation. C-terminal-binding protein 1 (CtBP1) is a multifunctional human protein that acts as a corepressor for diverse transcription regulators, including GLIS2 and BCL6, and exhibits dehydrogenase activity (EC 1.1.1.-). It plays critical roles in Golgi complex structure maintenance, brown adipose tissue differentiation, and cellular signaling pathways. CtBP1 localizes to both the cytoplasm and nucleus, reflecting its dynamic involvement in transcriptional regulation and metabolic processes. The provided fragment (residues 1-357) represents a computationally optimized stable domain suitable for mechanistic studies of its corepressor and enzymatic functions.